

What is claimed is:

1. A plastisol composition comprising 5 to 60 weight % of at
5 least one pulverulent organic polymer, 5 to 65 weight % of at
least one plasticizer, 1 to 30 weight % pulverulent saccharide
selected from the group consisting of monosaccharides,
disaccharides and oligosaccharides, and 0.01 to 40 weight % of
at least one reactive additive selected from the group
10 consisting of di- and polyisocyanates, blocked di- and
polyisocyanates, microencapsulated di- and polyisocyanates,
amino-functional additives, hydroxy-functional additives, epoxy
resins, condensation products of epoxy resins and
polyaminoamides and/or di- or polyamines, dicarboxylic acids,
15 di- and tricarboxylic acid anhydrides, β -dicarbonyl compounds,
metal chelates of β -dicarbonyl compounds, peroxides and mixtures
thereof.
- 20 2. A plastisol composition according to claim 1, wherein the
at least one pulverulent organic polymer is selected from the
group consisting of polyvinyl chloride, copolymers of vinyl
chloride with vinyl acetate, styrene and/or alkyl
(meth)acrylates, copolymers of styrene with (meth)acrylic acid,
25 (meth)acrylamide and/or alkyl (meth)acrylates, copolymers of
methyl or ethyl (meth)acrylate with C₃- to C₈-alkyl
(meth)acrylates, alkyl (meth)acrylate homopolymers and mixtures
thereof.
- 30 3. A plastisol composition according to claim 1, wherein the
at least one pulverulent saccharide is selected from the group
consisting of dextrose, glucose, galactose, mannose, fructose,
arabinose, xylose, ribose, 2-deoxy-ribose, cellobiose, maltose
(malt sugar), lactose (milk sugar), sucrose (cane sugar),
35 gentiobiose, melibiose, trehalose, turanose, gentianose,

kestose, maltotriose, melecitose, raffinose, stachyose,
lychnose, secalse and mixtures thereof.

4. A plastisol composition according to claim 1, wherein the
5 at least one pulverulent saccharide has an average particle size
of 1 to 100 μm .

5.A plastisol composition according to claim 1, additionally
comprising up to 40 weight % of at least one filler.

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6. A plastisol composition according to claim 1, wherein the
at least one pulverulent saccharide has an average particle size
of 1 to 20 μm .

15 7. A plastisol composition according to claim 1 comprising 3
to 10 weight % of at least one pulverulent saccharide.

8. A plastisol composition according to claim 1, wherein said
at least one pulverulent saccharide is selected from the group
20 consisting of dextrose, sucrose, and mixtures thereof.

9. A plastisol composition according to claim 1, additionally
comprising at least one additive selected from the group
25 consisting of pigments, anti-aging agents, rheology auxiliaries,
blowing agents and mixtures thereof.

10. A plastisol composition according to claim 1, wherein said
at least one plasticizer is selected from the group consisting
30 of C_4 - to C_{16} -alkyl phthalates.

11. A method of forming an adhesive or coating on a substrate,
said method comprising applying the plastisol composition of
claim 1 to said substrate, heating said plastisol composition,
35 and cooling said plastisol composition to form a cured adhesive
or coating.

12. The method of claim 11, wherein said substrate is comprised of metal.

5 13. The method of claim 11, wherein said substrate is selected from the group consisting of steel, electrolytically galvanized steel, hot-dip galvanized steel, and organically coated steel.

10 14. The method of claim 11, wherein said substrate is part of a motor vehicle.